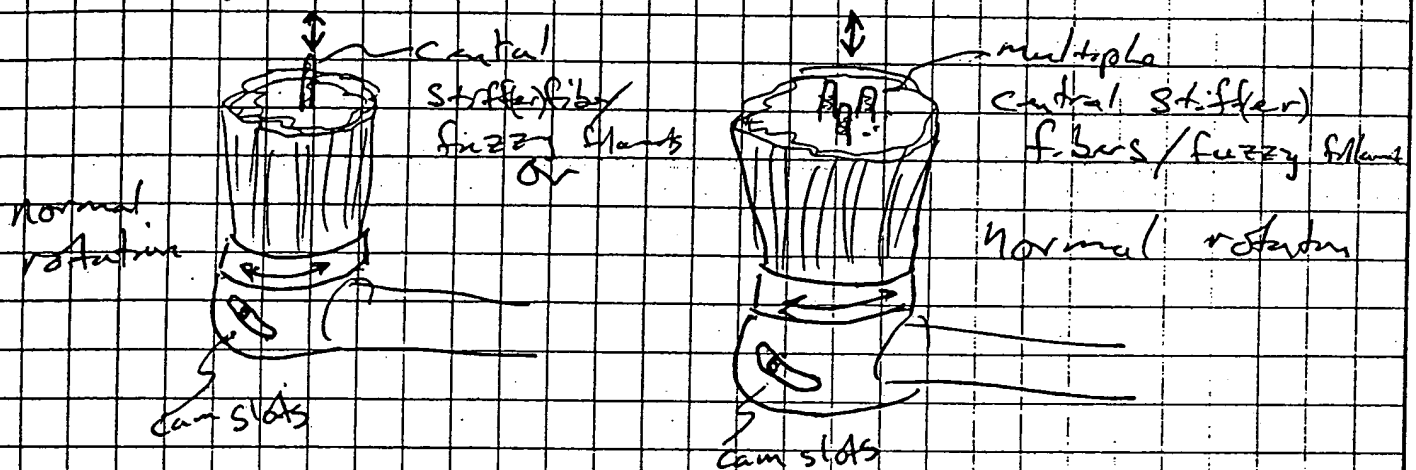


## Dual Motion Brush head

Concept: Central Fiber(s) have axial motion rising above top plane of rotating toothbrush head acting as "pick" between tooth cavities:



Central "pick" fiber(s) achieves motion by cam action on outer stationary housing. As main brush head rotates, central fiber(s) rise above top plane of brush, retract on back rotation.

Requires only minor redesign of current brush head to achieve mechanized motion from existing brush design.

See next page

Exhibit 16

Page 1

Witnessed & Understood by me,

John Howard  
K. Zimmerman

Date

10/17

Date

10/17/97

Recorded by

J. W. [Signature]

Date

10-17

97

## Mechanical Explosion of drive mechanism

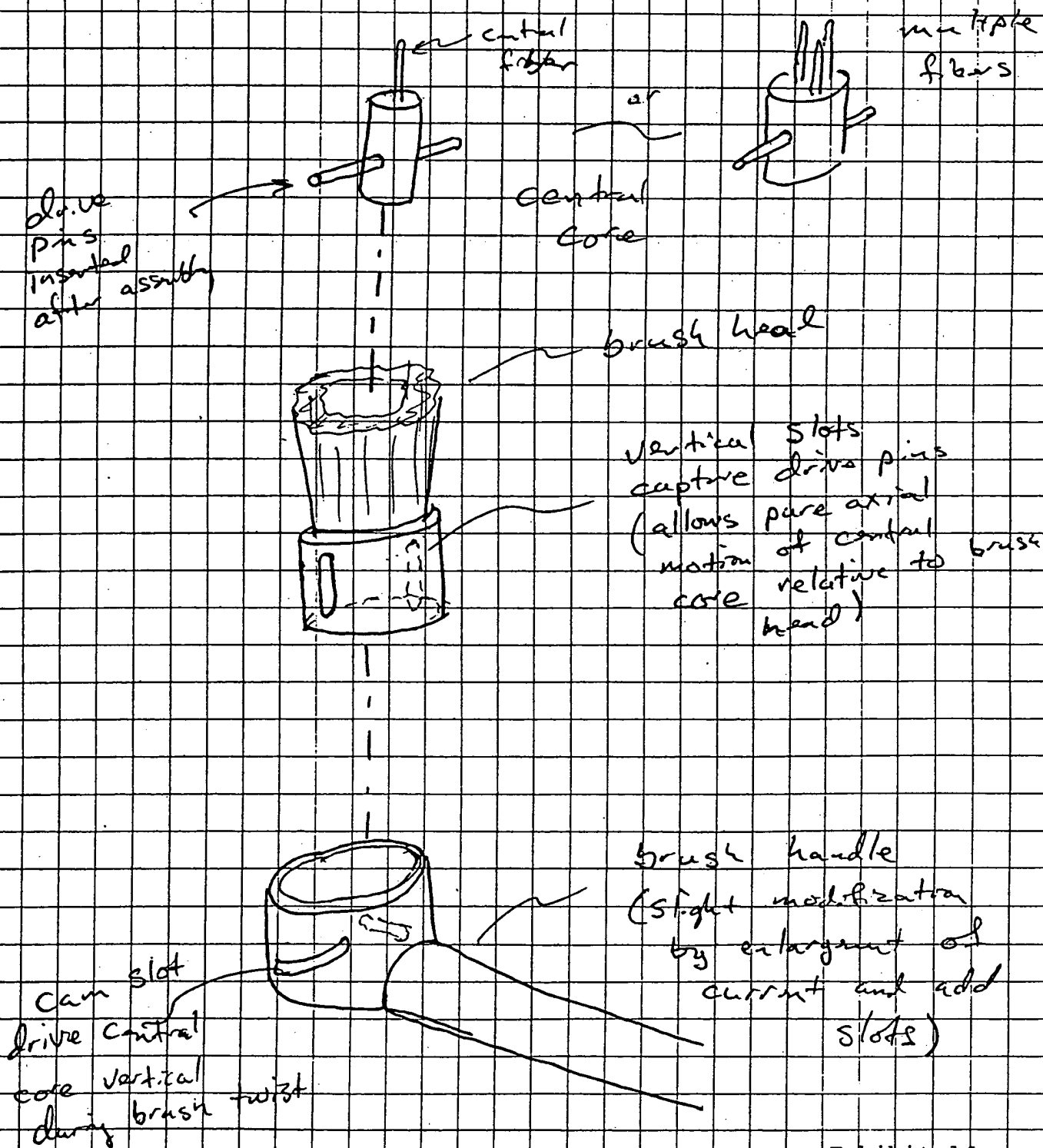


Exhibit 16

Page 2

Witnessed &amp; Understood by me,

Date

10/17

Date

10/17/97

Recorded by

Date

10-17

-97

To accomodate current drive mechanism  
 Cut away at some central core material  
 to fit drive pin. Also expand outer casing  
 of plastic head to fit "sleeves" of brush

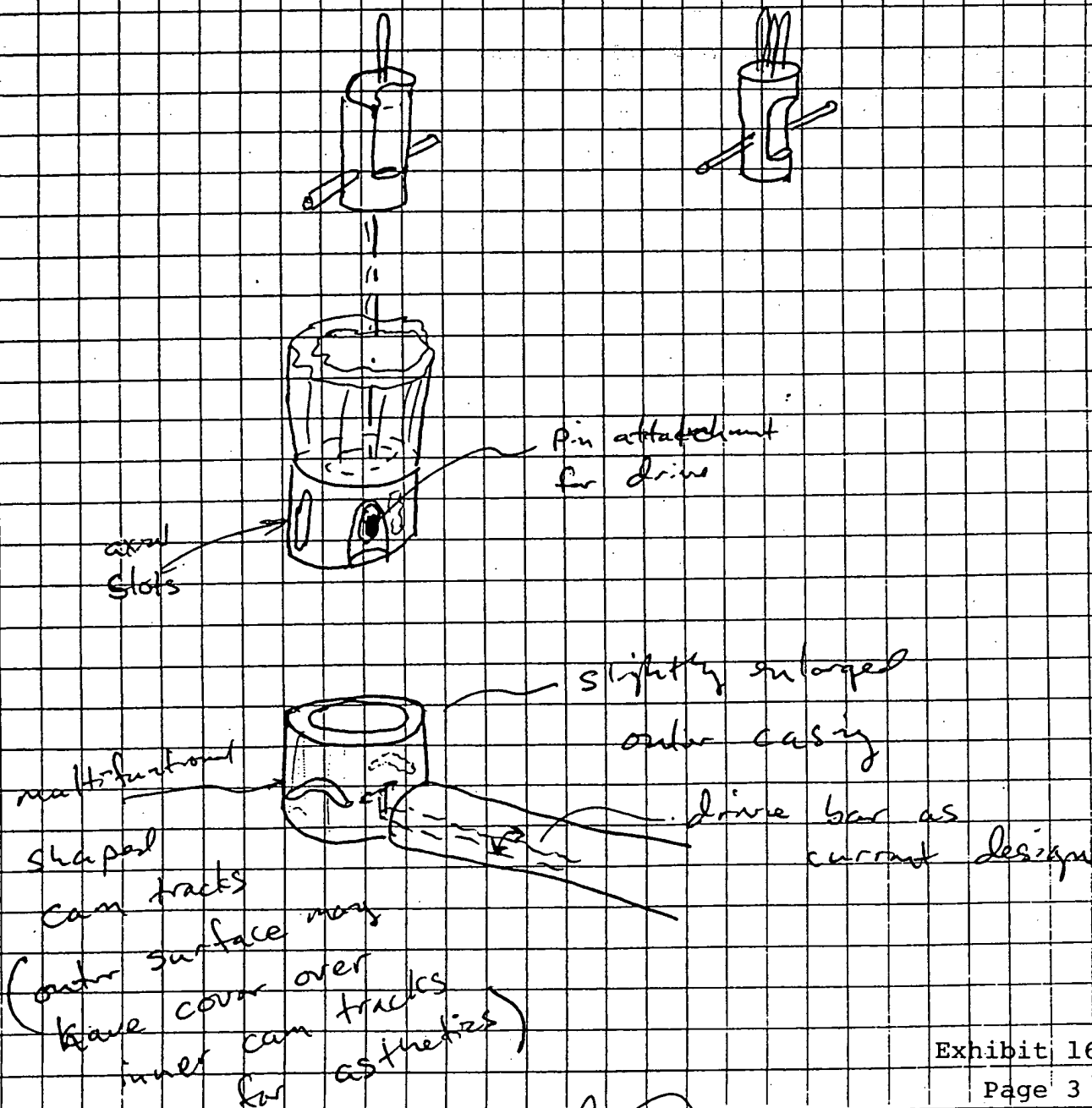


Exhibit 16

Page 3

Witnessed & Understood by me

Date

10-27-97

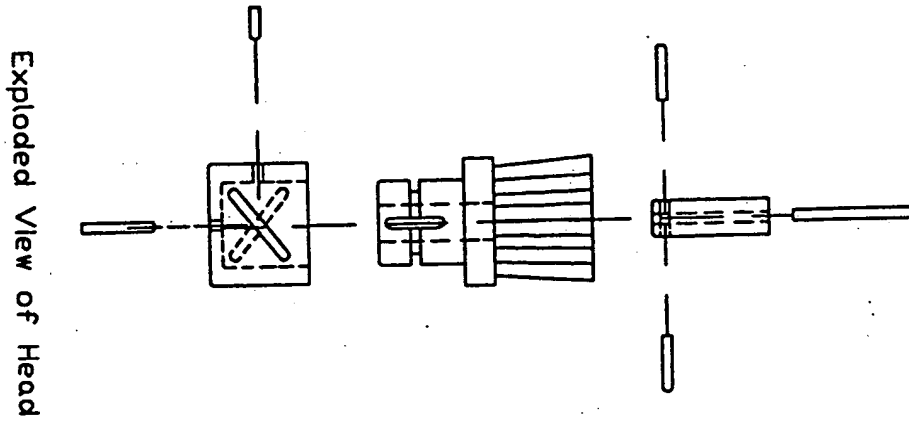
Recorded by

Date

10-20-97

Date

10-17  
-97



This Model Hand Operated, Can be Fitted with  
Standard Drive Linkage of Electric Tooth Brush

Retracted Center Position

Full Extension Center Position

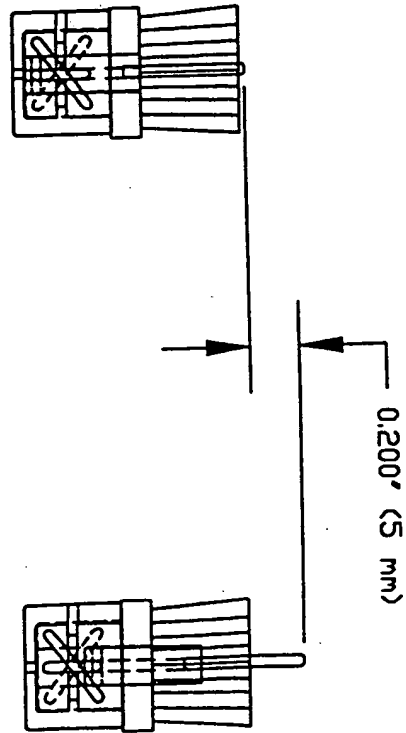
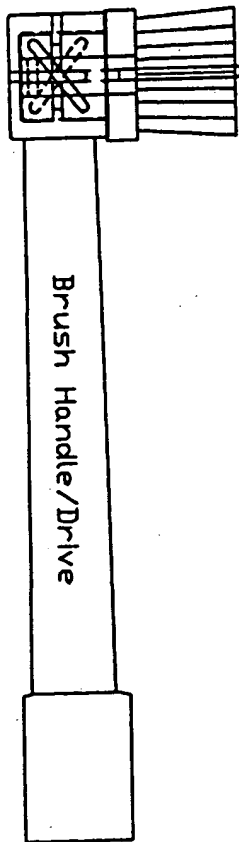


Exhibit 16

Page 4

Witnessed & Understood

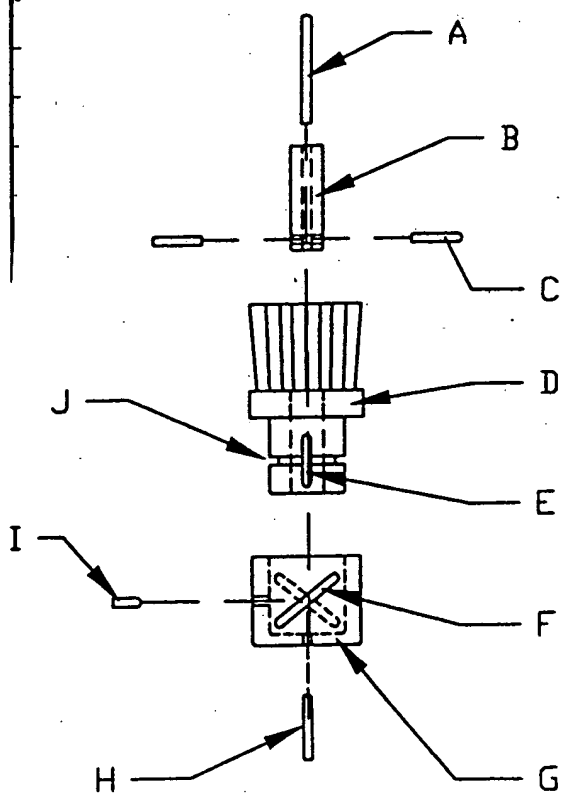
*[Signature]*

Date  
10/30/97  
Date  
10/30/97

Recorded by  
*[Signature]*

Date  
10/30/97

# Primary Brush Head Components



A: Inter-Dental Probe

B: Slider Core

C: Cam Follower Pins

D: Brush / Base

E: Vertical Slider Track

F: Cam Track

(Note: Cam can take on any useful shape:

1. Sinusoidal
2. Curved
3. Linear
4. etc...)

G: Housing

H: Guide / Rotation Pin

I: Retaining Pin

J: Retaining Track

Exhibit 16

Page 5

Witnessed &amp; Understood by me,

Date

10/30/97

Recorded by

Date

10/30/97

F. Smith

Date

10/30/97

Thomas D. Becker